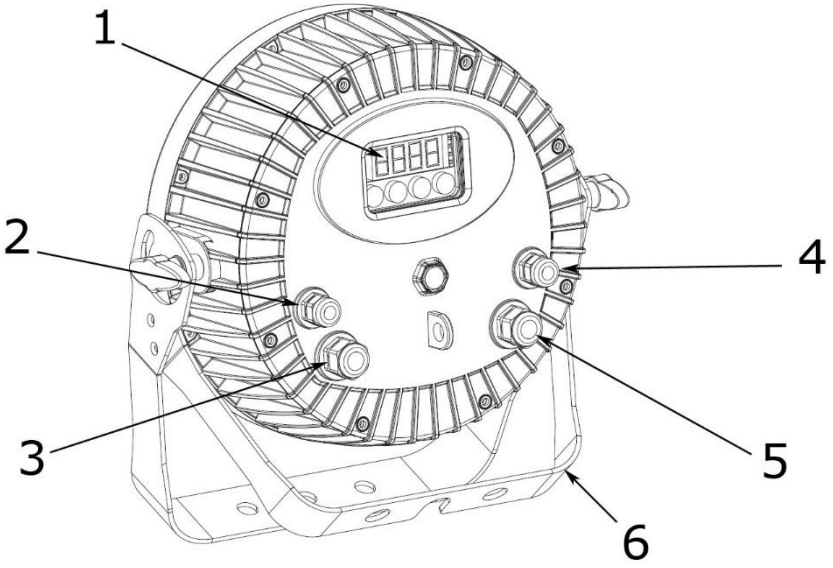
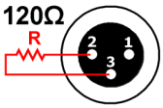
LX140

MAJSTRO LED PAR 18 X 8 W - RGBW LED

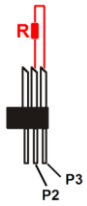
USER MANUAL



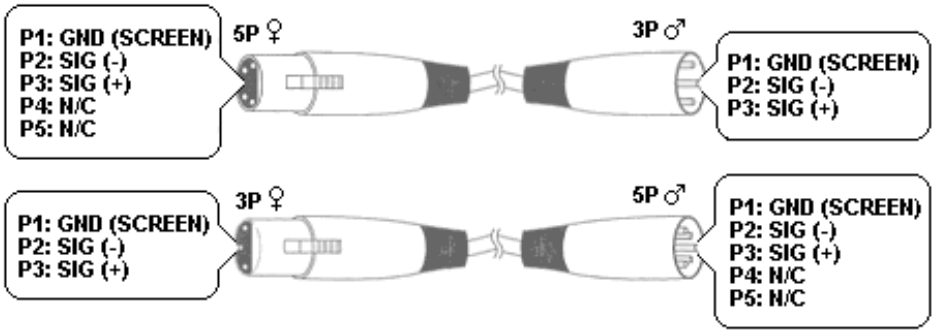
1 = GND
2 = SIG (-)
3 = SIG (+)



terminator



How to turn the controller line from 3-pins into 5-pins (plug and socket).



USER MANUAL

1. Introduction

To all residents of the European Union

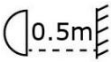
Important environmental information about this product

This symbol on the device or the package indicates that disposal of the device after its lifecycle could harm the environment. Do not dispose of the unit (or batteries) as unsorted municipal waste; it should be taken to a specialized company for recycling. This device should be returned to your distributor or to a local recycling service. Respect the local environmental rules.

If in doubt, contact your local waste disposal authorities.

Thank you for choosing Luxibel®! Please read the manual thoroughly before bringing this device into service. If the device was damaged in transit, do not install or use it and contact your dealer.

2. Safety Instructions

	Be very careful during the installation: touching live wires can cause life-threatening electroshocks.
	Always disconnect mains power when device not in use or when servicing or maintenance activities are performed. Handle the power cord by the plug only.
	Indoor use only. Keep this device away from rain, moisture, splashing and dripping liquids. Never put objects filled with liquids on top of or close to the device.
	Keep this device away from children and unauthorized users.
	Caution: device heats up during use.
	Do not stare directly at the light source, as this may cause • epileptic seizure in sensitive people • temporarily loss of sight (flash blindness) • permanent (irreversible) eye damage.
	There are no user-serviceable parts inside the device. Refer to an authorized dealer for service and/or spare parts.
	Respect a minimum distance of 0.5 m between the device's light output and any illuminated surface.
	This is a Safety Class 1 device. It is therefore essential that the device be earthed. Have a qualified person carry out the electric connection.

- Make sure that the available voltage does not exceed the voltage stated in the specifications of this manual.
- Do not crimp the power cord and protect it against damage. Have an authorised dealer replace it if necessary.
- Use an appropriate safety cable to fix the device (e.g. VDLSC7N or VDLSC8N).
- Install the device at a minimal distance of 0.5 m from flammable and explosive objects or substances.
- The maximum ambient temperature is 40 °C. Do not operate the device at higher temperatures.

3. General Guidelines

Refer to the **Velleman® Service and Quality Warranty** on the last pages of this manual.

	Keep this device away from dust and extreme temperatures. Make sure the ventilation openings are clear at all times. For sufficient air circulation, leave at least 1" (± 2.5 cm) in front of the openings.
	Protect this device from shocks and abuse. Avoid brute force when operating the device.

- Familiarise yourself with the functions of the device before actually using it. Do not allow operation by unqualified people. Any damage that may occur will most probably be due to unprofessional use of the device.
- All modifications of the device are forbidden for safety reasons. Damage caused by user modifications to the device is not covered by the warranty.
- Only use the device for its intended purpose. All other uses may lead to short circuits, burns, electroshocks, lamp explosion, crash, etc. Using the device in an unauthorised way will void the warranty.
- Damage caused by disregard of certain guidelines in this manual is not covered by the warranty and the dealer will not accept responsibility for any ensuing defects or problems.
- Mechanical wear and LEDs are not covered by warranty.
- A qualified technician should install and service this device.
- Do not switch the device on immediately after it has been exposed to changes in temperature. Protect the device against damage by leaving it switched off until it has reached room temperature.
- This device is designed for professional use on stage, in discos, theatres, etc. The device should only be used indoors with an alternating current of 100-240 V~, 50-60 Hz.
- Lighting effects are not designed for permanent operation: regular operation breaks will prolong their lives.
- Use the original packaging if the device is to be transported.
- Keep this manual for future reference.

4. Features

The MAJSTRO LED PAR is an outdoor IP65 super-slim LED PARcan designed to be a powerful wash light for architectural lighting or outdoor events. It contains 18 x 8 W high-power RGBW LEDs with full control of colour saturation and temperature. A big innovation compared to traditional PARcans.

- IP65 rate for outdoor use
- 18 x 8 W high-power RGBW LEDs
- DMX control via 4, 6 or 10 channels for simple or advanced controlling
  - 4-channel mode: RGBW
  - 6-channel mode: dimmer, RGBW, shutter
  - 10-channel mode: dimmer, RGBW, colour macro, shutter, auto programme, auto speed, dimmer speed
- built-in programmes with speed adjustment
- static colour selection
- master/slave mode for synchronized operation of multiple units linked in a chain
- flicker-free operation (400 Hz)
- clear LCD display for easy menu setting

5. Overview

Refer to the illustrations on page 2 of this manual.

1	LCD display with control panel
2	XLR input
3	power input

4	XLR output
5	power output
6	mounting bracket

6. Mounting and Connection

Choose a suitable mounting spot. Mount the device in the desired angle using the included bracket. Connect the power cord to the mains. Disconnect after use.

6.1 Mounting the Device

- Have the device installed by a qualified person, respecting EN 60598-2-17 and all other applicable norms.
- The carrying construction must be able to support 10 times the weight of the device for 1 hour without deforming.
- The installation must always be secured with a secondary attachment e.g. a safety cable.
- Never stand directly below the device when it is being mounted, removed or serviced. Have a qualified technician check the device once a year and once before you bring it into service.
- Install the device in a location with few passers-by that is inaccessible to unauthorised persons.
- Overhead mounting requires extensive experience: calculating workload limits, determining the installation material to be used… Have the material and the device itself checked regularly. Do not attempt to install the device yourself if you lack these qualifications as improper installation may result in injuries.
- For truss mounting, use an appropriate clamp (not incl.) and fit an M10 bolt through the centre of the (folded) bracket.
- Adjust the desired inclination angle via the mounting bracket and tighten the bracket screws.
- Make sure there is no flammable material within a 0.5 m radius of the device.
- Have a qualified electrician carry out the electric connection.
- Connect the device to the mains with the power plug. All devices must be powered directly off a grounded switched circuit. Do not connect to a dimmer pack.
- The device has a power output to supply power to another device. When connecting several devices in a daisy chain via this output, make sure that the total current does not exceed the power line's nominal current. Use power cables with an adequate section.
- The installation has to be approved by an expert before the device is taken into service.

6.2 Connecting the Device

Power

Connect the device to the mains with the power plug.

Power all devices directly off a grounded switched circuit.

Do not connect the device to a rheostat or dimmer circuit, even when using the rheostat or dimmer channel solely for 0 % to 100 % switching.

- Have a qualified electrician carry out the electric connection.

DMX-512 Connection

- When applicable, connect an XLR cable to the female XLR output of a controller (not incl.) and the other side to the male XLR input of the device. Multiple devices can be linked through serial linking. The linking cable shall be a dual core, screened cable with XLR input and output connectors.
- A DMX terminator is recommended for installations where the DMX cable has to run a long distance or is in an electrically noisy environment (e.g. discos). The terminator prevents corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 Ω resistor between pins 2 and 3, which is then plugged into the XLR output socket of the last device in the chain.

7. Operation

The device can be used in the following modes:

- stand-alone mode
- master/slave
- with a DMX-512 controller.

7.1 Control Panel

Access the control panel functions using the four panel buttons located around the display. From left to right:

Button	Function
MENU	• access the menu • return to a previous menu option
UP	• scroll through the menu options in ascending order • increase value
DOWN	• scroll through the menu options in descending order • decrease value
ENTER	• select menu option • store the current menu or option within the menu

Menu

menu	function	description
4-CH	DMX channel mode	selection of the DMX channel mode
6-CH		
10CH		
C--	static colour	static colour selection (1:R, 2:G, 3:B, 4:W, 5: GB, 6:RB, 7:RG, 8:RGB, 9:RW, 10:GW, 11:BW, 12:RGW, 13:RBW, 14:GBW, 15:RGBW)
P--	auto programme	selection of the auto programme with LED and motor speed setting (P1: 15-colour fading lo-hi-lo P2: 15-colour lo-hi P3:15-colour hi-lo P4:mixed colour switching P5:running P1-P4)
S--	speed setting	from slow to fast
U--	colour setting mode	
dIM	dimmer mode	dimmer speed selection from fast (0.8 s) to middle (1.6 s) to slow (2.4 s)
teMP	fixture temperature	
PASS	password	to unlock, press UP-DOWN-UP-DOWN-ENTER

7.2 Stand-Alone Mode

The device starts running in stand-alone mode after connection to the mains. This mode allows you to use the device without controller.

1. Connect the device to the mains to switch it on.
2. Press MENU to enter the menu.
3. Navigate to <C--> or <P--> with UP or DOWN and press ENTER to confirm.
4. Select an option with UP or DOWN and press ENTER to confirm.

7.3 Master/Slave Mode

Notes

- The master/slave mode allows for connecting several devices to a single master device in a daisy chain.
- All slave devices will then work synchronously with the master device.
- Configure all slave units before connecting the master unit to the daisy chain.
- The maximum number of slave units you can connect to a master unit is 18.

Slave units:

1. Connect the DMX input from your slave device to the DMX output of the previous device in the chain.
2. Connect the slave device to the mains to switch it on.
3. Repeat these steps for all slave units.

Master unit

1. Connect the master device to the mains to switch it on.
2. Set the master unit to work in one of the running modes.
3. Connect the master unit as the first unit in the chain by connecting the DMX output of the master device to the DMX input of the first slave unit.

7.4 DMX Mode

The DMX mode allows you to control the device with any universal DMX controller.

- All DMX-controlled devices need a digital start address so that the correct device responds to the signals. This digital start address is the channel number from which the device starts to "listen" to the DMX controller. The same starting address can be used for a whole group of devices or an individual address can be set for every device.
- When all devices have the same address, all the units will "listen" to the control signal on one particular channel. In other words: changing the settings of one channel will affect all devices simultaneously. If you set individual addresses, each device will "listen" to a separate channel number. Changing the settings of one channel will only affect the device in question.

To set the device to work with a DMX controller:

1. Press MENU until <4-CH>, <6-CH> or <10-CH> is displayed and press ENTER.
2. Use UP and DOWN to set the DMX start address and press ENTER.

Start addresses

Use the table below to define the correct address. The table shows the settings for units 1 to 3. Apply the same principle for the other units. Example:

Channel mode		First unit	Second unit	Third unit	Highest start address
10	start address	1	11 (1 + 10)	21 (11 + 10)	503
	channel	1 - 10	11 - 20	21 - 30	

DMX Channel Values

4-channel Mode

channel	from	to	function	description
1	000	255	red	from 0-100 %
2	000	255	green	from 0-100 %
3	000	255	blue	from 0-100 %
4	000	255	white	from 0-100 %

6-channel Mode

channel	from	to	function	description
1	000	255	dimmer	from 0-100 %
2	000	255	red	from 0-100 %
3	000	255	green	from 0-100 %
4	000	255	blue	from 0-100 %
5	000	255	white	from 0-100 %
6	000	010	strobe	no function
	011	255		from slow to fast

10-channel Mode

channel	from	to	function	description
1	000	255	dimmer	from 0-100 %
2	000	255	red	from 0-100 %
3	000	255	green	from 0-100 %
4	000	255	blue	from 0-100 %
5	000	255	white	from 0-100 %
6	000	010	colour macro + white balance	no function
	011	030		R 100 %, G 0-100 %, B 0 %
	031	050		R 100-0 %, G 100 %, B 0 %
	051	070		R 0 %, G 100 %, B 0-100 %
	071	090		R 0%, G 100-0 %, B 100 %
	091	110		R 0-100 %, G 0 %, B 100 %
	111	130		R 100 %, G 0 %, B 100-0 %
	131	150		R 100 %, G 0-100 %, B 0-100 %
	151	170		R 100-0 %, G 100-0 %, B 100 %
	171	200		R 100 %, G 100 %, B 100 %, W 100 %
	201	205		white 1
	206	210		white 2
	211	215		white 3
	216	220		white 4
	221	225		white 5
	226	230		white 6
	231	235		white 7
	236	240		white 8
	241	245		white 9
	246	250		white 10
	251	255		white 11
7	000	010	strobe	no function
	011	255		from slow to fast
8	000	051	auto programmes	no function
	052	101		auto programme 1
	102	150		auto programme 2
	153	203		auto programme 3
	204	254		auto programme 4
	255	255		auto programme 5
9	000	255	auto speed	only when auto programme is activated on channel 8
10	000	051	dimmer speed	dimmer mode setting
	052	101		dimmer mode off
	102	150		dimmer mode 1
	153	203		dimmer mode 2
	204	255		dimmer mode 3

8. Cleaning and Maintenance

- All screws should be tightened and free of corrosion.
- The housing, the lenses, the mounting supports and the installation location (e.g. ceiling, suspension, trussing) should not be deformed, modified or tampered with; e.g. do not drill extra holes in mounting supports, do not change the location of the connections…
- Mechanically moving parts must not show any signs of wear and tear.
- The electric power supply cables must not show any damage. Have a qualified technician maintain the device.
- Disconnect the device from the mains prior to maintenance activities. Let the device cool down.
- Wipe the device regularly with a moist, lint-free cloth. Do not use alcohol or solvents.

- Do not immerse the device in any liquid.
- There are no user-serviceable parts, apart from the fuse.
- Contact your dealer for spare parts if necessary.

9. Technical Specifications

power supply	100-240 V~, 50-60 Hz
power consumption	125 W
light source	18 x 8 W RGBW LEDs
viewing angle	30°
beam angle	15°
IP rate	IP65
dimensions	328 x 267 x 237 mm
weight	5.5 kg

Use this device with original accessories only. Velleman nv cannot be held responsible in the event of damage or injury resulting from (incorrect) use of this device. For more info concerning this product and the latest version of this manual, please visit our website www.luxibel.com. The information in this manual is subject to change without prior notice.

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Velleman® Service and Quality Warranty

Since its foundation in 1972, Velleman® acquired extensive experience in the electronics world and currently distributes its products in over 85 countries.

All our products fulfil strict quality requirements and legal stipulations in the EU. In order to ensure the quality, our products regularly go through an extra quality check, both by an internal quality department and by specialized external organisations. If, all precautionary measures notwithstanding, problems should occur, please make appeal to our warranty (see guarantee conditions).

General Warranty Conditions Concerning Consumer Products (for EU):

• All consumer products are subject to a 24-month warranty on production flaws and defective material as from the original date of purchase.

• Velleman® can decide to replace an article with an equivalent article, or to refund the retail value totally or partially when the complaint is valid and a free repair or replacement of the article is impossible, or if the expenses are out of proportion.

You will be delivered a replacing article or a refund at the value of 100% of the purchase price in case of a flaw occurred in the first year after the date of purchase and delivery, or a replacing article at 50% of the purchase price or a refund at the value of 50% of the retail value in case of a flaw occurred in the second year after the date of purchase and delivery.

• **Not covered by warranty:**

- all direct or indirect damage caused after delivery to the article (e.g. by oxidation, shocks, falls, dust, dirt, humidity...), and by the article, as well as its contents (e.g. data loss), compensation for loss of profits;

- consumable goods, parts or accessories that are subject to an aging process during normal use, such as batteries (rechargeable, non-rechargeable, built-in or replaceable), lamps, rubber parts, drive belts... (unlimited list);

- flaws resulting from fire, water damage, lightning, accident, natural disaster, etc....;

- flaws caused deliberately, negligently or resulting from improper handling, negligent maintenance, abusive use or use contrary to the manufacturer's instructions;

- damage caused by a commercial, professional or collective use of the article (the warranty validity will be reduced to six (6) months when the article is used professionally);

- damage resulting from an inappropriate packing and shipping of the article;

- all damage caused by modification, repair or alteration performed by a third party without written permission by Velleman®.

• Articles to be repaired must be delivered to your Velleman® dealer, solidly packed (preferably in the original packaging), and be completed with the original receipt of purchase and a clear flaw description.

• Hint: In order to save on cost and time, please reread the manual and check if the flaw is caused by obvious causes prior to presenting the article for repair. Note that returning a non-defective article can also involve handling costs.

• Repairs occurring after warranty expiration are subject to shipping costs.

• The above conditions are without prejudice to all commercial warranties.

The above enumeration is subject to modification according to the article (see article's manual).

Made in PRC
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